

NOTES ON DIAPTOMUS OKADAI SP. NOV.

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FOUR FIGURES

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In the summer of 1930, Dr. Yaichiro Okada and Mr. Kazuo Koba collected plankton materials from Hokkaido. At the suggestion of Mr. Kenzo Kikuchi, who examined Copepoda in these materials, the author has studied a species of the genus *Diaptomus* found in Lake Abashiri. This is a freshwater lake 17 meters in depth and closely connected with Sea of Okhotsk. The present sample is allied to *Diaptomus lobatus* Lillj, described from Siberia, but seems to deserve establishing a new species. The only species of the genus *Diaptomus* that has ever been described from Hokkaido is *Diaptomus pacificus* Burckhardt (= *Diaptomus denticornis* var. *yesoensis* Kokubo).

My thanks are due to Dr. Yaichiro Okada and Mr. Kenzo Kikuchi who have given me invaluable aids during the progress of this work.

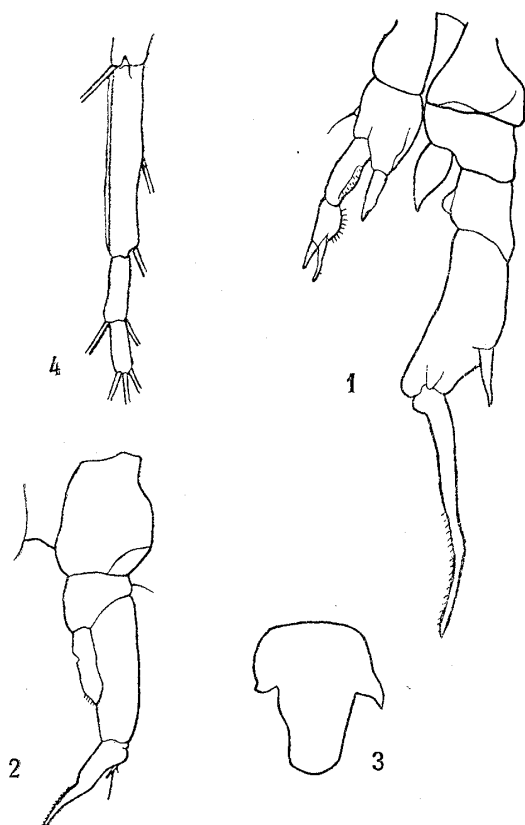
Diaptomus okadai n. sp.

Female: Anterior antennæ extending beyond the distal end of furcal setæ. The last pedigerous segment slightly asymmetric. The genital segment longer than the remainder of abdominal segments:

Proximal part expands laterally; the left one rounded, bearing a short spine at the distal end, the right one narrower than the left, tapers distally and bends backwards. Inner ramus of fifth leg about one half of the outer ramus in length, and digitiform distally.

Male: Antepenultimate segment of right anterior antenna has a narrow hyaline lamella.

Abdominal segment somewhat asymmetric. Endopodite of right fifth leg reaches the distal end of the first joint of exopodite, tapering into sharp end. Inner margin of the first joint of exopodite bearing a semicircular lamella.



Diaptomus okadai n. sp.

Fig. 1.—fifth leg of male. Fig. 2.—fifth leg of female. Fig. 3.—genital segment of female. Fig. 4.—last three segment of right anterior antenna of male.

The second joint three times as long as the first joint. The stout lateral spine is located near the middle of the segment. The apical spine $1\frac{1}{2}$ as long as the segment. Left fifth leg longer than the first segment not exceeding the middle of the 2nd segment of right exopodite: the endopodite narrowed distally, $\frac{5}{7}$ as long as the first segment of exopodite: the border of the first joint of exopodite covered with hairs: the second joint of exopodite convex at the basal part having hairs at its distal margin.

Body length: Female 1.5 mm, male 1.4 mm.

Remarks: The present species is allied to *Diaptomus lobatus* Lillj, found at Podimnoje Selo, Jenisei and Novaja Semlja, but is easily distinguished in the following characters.

- 1) The degree of the lateral expansion of the anterior part of the genital segment of female higher than that of *D. lobatus* and the spines at edges directed backwards.
- 2) The hyaline lamella of antepenultimate segment of anterior antenna of male not armed with tooth or claw-like process.
- 3) Inner ramus of fifth leg of female about one half of the first segment of exopodite in length.
- 4) On inner margin of first segment of exopodite of right fifth leg of male is situated a semicircular process.

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